

FEB 09 1982

LA OFFICE

(213)

726-8040

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health AdministrationForm Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

PM 5411

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

See Attached Comments

MANUFACTURER'S NAME

National Starch and Chemical Corporation

EMERGENCY TELEPHONE NO.

201 755-4100

ADDRESS (Number, Street, City, State, and ZIP Code)

10 Finderne Avenue, Bridgewater, New Jersey 08807

CHEMICAL NAME AND SYNONYMS

N/A (Not Applicable)

TRADE NAME AND SYNONYMS

TRIMFAST PRIMER 1017 (41-4463)

CHEMICAL FAMILY

N/A

FORMULA

N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
* Toluene				approx.	30 200
Acetone				approx.	30 1000
Xylene				less than	5 100
n-Butanol				less than	5 100

*Subject to further limitations, see OSHA Regulation 29 CFR 1910.1000, Table Z-2

SECTION III - PHYSICAL DATA

BOILING POINT (°F)	Based on acetone approx. 130	SPECIFIC GRAVITY (H ₂ O=1)	approx.	0.94
VAPOR PRESSURE (mm Hg.)	@ 20°C based on acetone approx. 180	PERCENT VOLATILE BY WEIGHT	approx.	68
VAPOR DENSITY (AIR=1)	approx. 2.6	EVAPORATION RATE (butyl acetate)	greater than	1
SOLUBILITY IN WATER	moderate			
APPEARANCE AND ODOR	Black liquid, characteristic ketone/hydrocarbon odor			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	Below 20°F (Closed Cup)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	CO ₂ , foam, dry chemical.			
SPECIAL FIRE FIGHTING PROCEDURES	Do not use water.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	Vapors may cause flash fires; vapors may ignite explosively.			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

See Section II

EFFECTS OF OVEREXPOSURE

Vapors: Headache, nausea, narcosis, impairment of coordination.

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Remove to fresh air, apply artificial respiration if needed. Call doctor. Eyes: flush with copious amounts of water. Call doctor. Skin: flush with water. Ingestion: consult doctor.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Fire, sparks, open flames, excessive heat.

INCOMPATIBILITY (Materials to avoid)

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

CO₂, CO, HCl, Cl₂, unknown hydrocarbons and unknown chlorine compounds.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove and extinguish all sources of heat, flames, sparks. Shut off all electric motors. Ventilate area. Mop up with rags or paper towels (wear impervious gloves). Dispose of waste in sealed containers.

WASTE DISPOSAL METHOD

Landfill as legally permitted.

Incineration as legally permitted.

Do not incinerate sealed containers.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

NIOSH approved respirator if required.

VENTILATION	LOCAL EXHAUST	SPECIAL
	Sufficient to keep vapors below TLV MECHANICAL (General)	OTHER

PROTECTIVE GLOVES

Solvent resistant

EYE PROTECTION

Chemical goggles with side shields.

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store at room temperature in a dry place. See attached warning label for this type of flammable liquid (B2X0,V10).

OTHER PRECAUTIONS

See preceding sections.

TRIMFAST PRIMER 1017

(41-4463)

This product is a black colored adhesive primer based on pigmented synthetic resins dissolved in a volatile solvent mixture. The hazards in handling and using this product are due to these solvents. The amount of each solvent in this adhesive based on the total product and the 8-hour time weighted exposure value (or TLV) for each are:

<u>SOLVENT</u>	<u>APPROXIMATE PERCENT BY WEIGHT</u>	<u>TLV IN PPM</u>
Acetone	30	1000
*Toluene	30	200
Xylene	less than 5	100
n-Butanol	less than 5	100

* Subject to further limitations according to Table Z-2 in section 193.1000 "Air Contaminants" of OSHA Regulations.

This product should be used with adequate ventilation so that the exposure of workers to vapors does not exceed the allowable maximum for any of these solvents.

TRIMFAST PRIMER 1017 is extremely flammable with a flash point below 20°F (Closed Cup) and it should not be used near fire, flame, sparks, static sparks, lighted cigarettes or any such ignition source.

The workers should also avoid skin contact with the wet adhesive primer. Most organic solvents have the ability to defat the skin and cause skin dryness. Continued exposure of the skin to the wet adhesive primer might cause irritation. In addition, if the adhesive dries on the skin, there might be mechanical irritation caused by trying to strip the dried product away.



STARCH AND CHEMICAL CORPORATION

10 FINDERNE AVE. ♦ BRIDGEWATER, N.J. ♦ 201-685-5000 ALL MAIL TO BOX 6500, BRIDGEWATER, N.J. 08807

WRITER'S DIRECT DIAL NUMBER:

CABLE ADDRESS • NASPROD, BRIDGEWATERNEWJERSEY
TWX • 710-480-9240

October 4, 1978

Mr. M. J. Veneroso, Dept. C1-725 (52-11)
Materials Handling & Packaging Engineering
Douglas Aircraft Company
3855 Lakewood Boulevard
Long Beach, California 90846

DPM 5411

Dear Mr. Veneroso:

This is in reply to your letter of September 25, 1978 regarding information pertaining to the products we supply you with, that are considered hazardous materials, as defined by the Department of Transportation, C.F.R., Title 49, Parts 100 to 199.

We presently supply you with product fill No. 41-4463, which is a hazardous material and shown below is the data you requested.

D.O.T. PROPER SHIPPING NAME:
D.O.T. HAZARD CLASS:
IATA ARTICLE NO:

ADHESIVE, NOS.
FLAMMABLE LIQUID
387

We have asked our Product Assurance Specialist, Mr. A. Levine to answer relative product information as to the flash point, closed cup method and OSHA Material Safety Data Sheet.

Very truly yours,

NATIONAL STARCH AND CHEMICAL CORPORATION

Charles A. Maxwell

Charles A. Maxwell
Senior Service Specialist

CAM:mg

cc: A. Levine - NSC - Bridgewater, N.J.

Bondmaster[®]

ADHESIVE

**DANGER — EXTREMELY
FLAMMABLE MIXTURE
DO NOT USE
NEAR FIRE OR FLAME**

SHIP TO:

This material is manufactured for and is meant to be applied only by trained personnel using prescribed industrial procedures and practices. It is not intended for use by the general public.

SHIPMENT NO. AND DATE:

CUSTOMER ORDER NO.:

IMPORTANT

NON-WARRANTY: Since we have no control over the conditions under which these goods are transported or under which the purchaser stores, handles or uses these goods, we make no warranty, either express or implied, with respect to these goods, their merchantability or their fitness for any purpose or the results to be obtained from their use. No representative of ours has authority to waive or change this provision, which applies to all sales. IF THE PURCHASER DOES NOT ACCEPT THE GOODS ON THESE TERMS, THEY ARE TO BE RETURNED AT ONCE. UNOPENED.

LIQUID PRODUCTS SHOULD BE STIRRED WELL BEFORE USING.

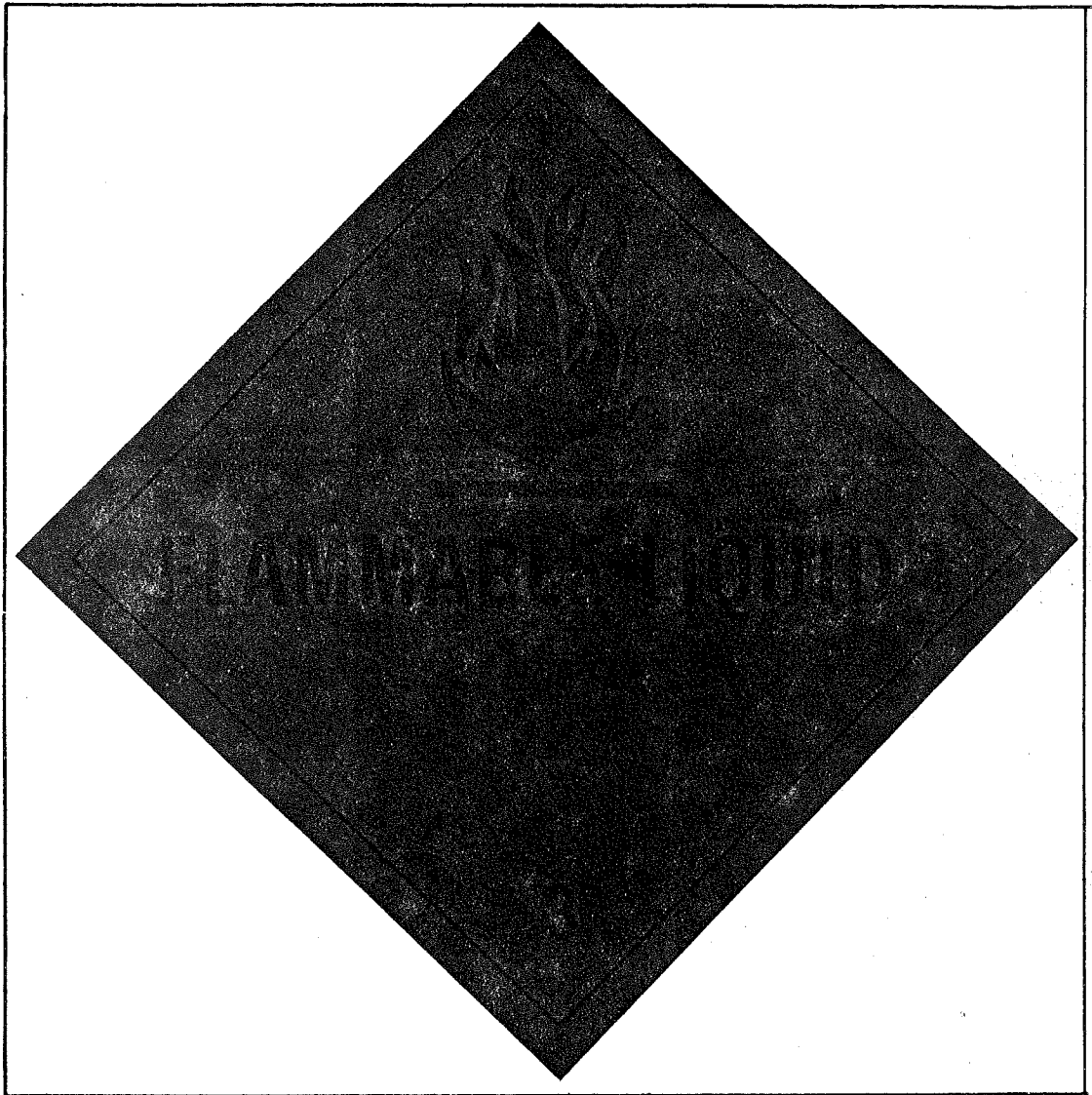
GROSS:

TARE:

NET:

National Adhesives BONDMASTER PRODUCTS
NATIONAL STARCH AND CHEMICAL CORPORATION
10 FINDERNE AVE., BRIDGEWATER, NEW JERSEY 08807

B2X-O



DANGER

SOLVENT-BASED PRODUCT CONTAINING

VOLATILE SOLVENTS

EXTREMELY FLAMMABLE MIXTURE - VAPOR IS HARMFUL

- **KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME**
- **AVOID PROLONGED OR REPEATED CONTACT WITH SKIN**
- **AVOID PROLONGED OR REPEATED BREATHING OF VAPOR**
- **DO NOT TAKE INTERNALLY**
- **KEEP CONTAINER CLOSED WHEN NOT IN USE**
- **USE ONLY WITH ADEQUATE VENTILATION**



STARCH AND CHEMICAL CORPORATION

10 FINDERNE AVE. ♦ BRIDGEWATER, N.J. ♦ 201-685-5000 ALL MAIL TO BOX 6500, BRIDGEWATER, N.J. 08807
WRITER'S DIRECT DIAL NUMBER: 201-685-5385

CABLE ADDRESS • NASPROD, BRIDGEWATER NEWJERSEY
TWX • 710-480-9240

LTR #171

October 9, 1978

Mr. M. J. Veneroso, Dept. C1-725 (52-11)
Materials Handling & Packaging Engineering
Douglas Aircraft Company
3855 Lakewood Boulevard
Long Beach, California 90846

Dear Mr. Veneroso:

This is in answer to that portion of your letter of September 25 regarding health-safety and other information for our adhesive primer TRIMFAST PRIMER 1017 (41-4463).

We are enclosing an OSHA-20 form, and attachments, for this product, as requested which also has flash point information.

The solvent portion of this adhesive primer is photochemically reactive according to Rule 102 of the Rules and Regulations of the South Coast Air Quality Management District (California).

We hope we have supplied the needed information and please contact us if you have any questions.

Very truly yours,

A. B. Levine
Product Assurance Specialist

ABL/lh

Enclosure